

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 19587 - L2 Version 1
Chandra X-Ray Center

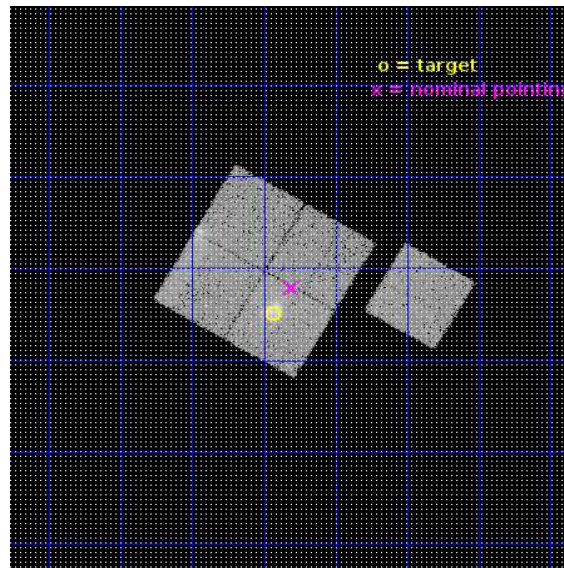
L2 Processing Date : Sep 5 2017

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1 Front

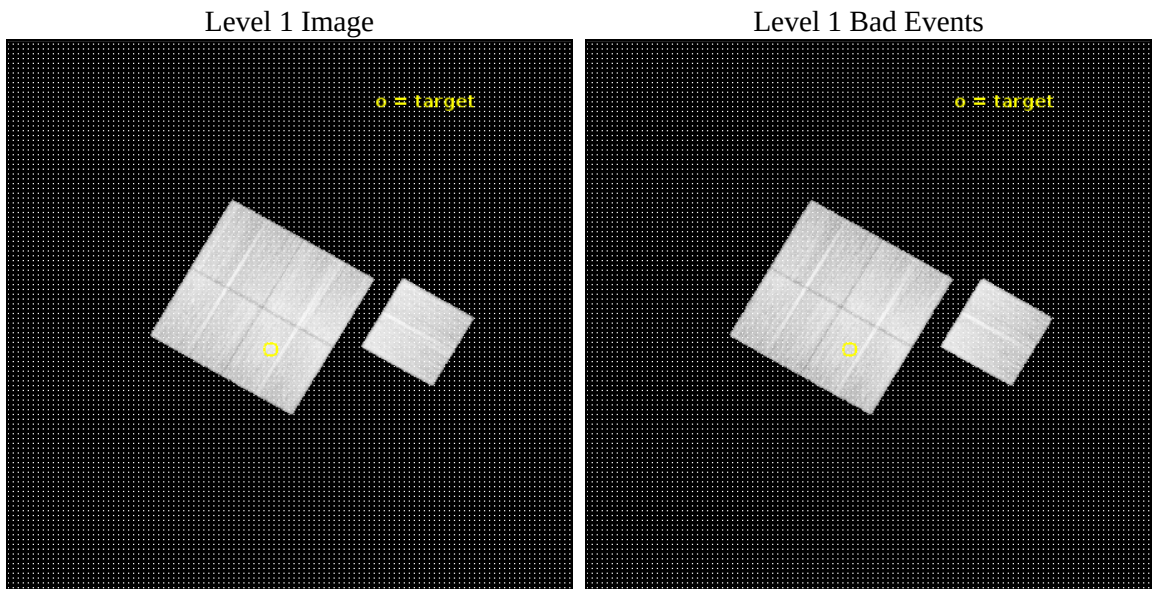
seq_num	801676	Sequence number
obs_id	19587	Observation id
title	A multiwavelength view of the intracluster medium at intermediate redshift in a mass-limited sample of ACTPol clusters	Proposal title
observer	Matt Hilton	Principal investigator
object	ACT-CL J0034.4+0225	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	8.608333	Observer's specified target RA [deg]
dec_targ	2.417389	Observer's specified target Dec [deg]
ra_nom	8.5769823899917	Nominal RA [deg]
dec_nom	2.4647495726055	Nominal Dec [deg]
roll_nom	120.21002098993	Nominal Roll [deg]
revision	1	Processing version of data
ontime	21614.852369428	Sum of GTIs [s]
livetime	21332.438410598	Livetime [s]
ontime0	21614.729259729	Sum of GTIs [s]
ontime1	21614.770279527	Sum of GTIs [s]
ontime2	21614.81131959	Sum of GTIs [s]
ontime3	21614.852369428	Sum of GTIs [s]
ontime6	21617.829229712	Sum of GTIs [s]
l2events	85824	Number of level 2 events



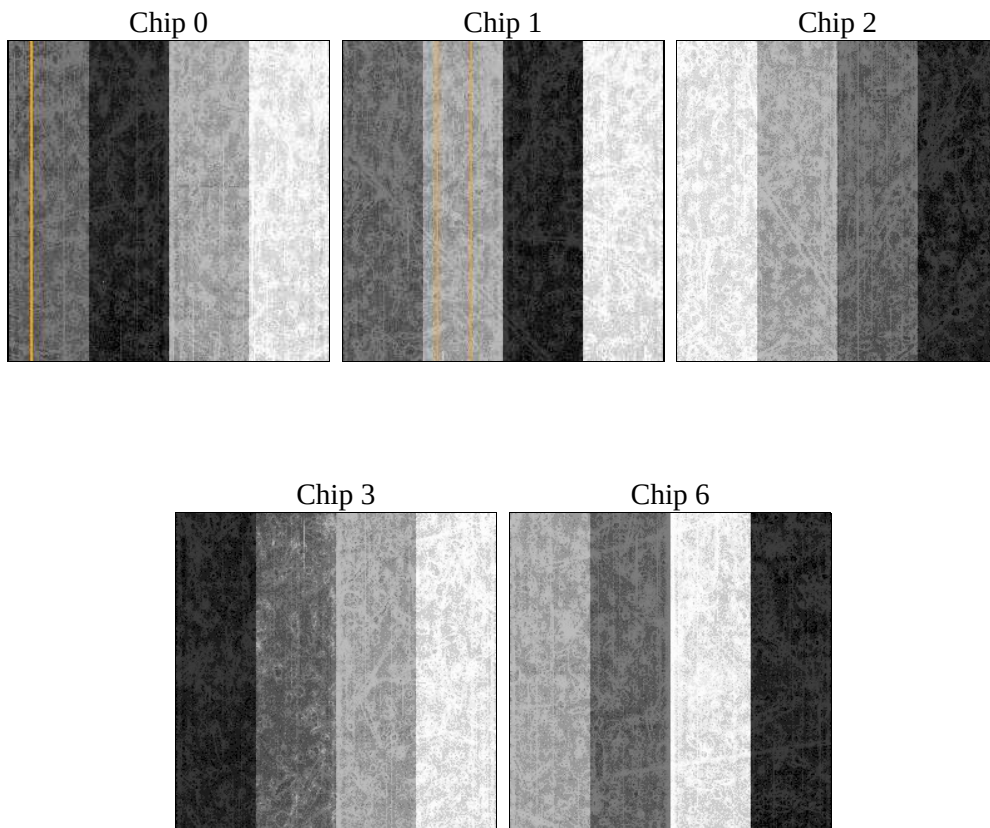
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	21552.171000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	21614.852369428	Sum of GTIs [s]
caldsver	4.7.6	 	ontime0	21614.729259729	Sum of GTIs [s]
date	2017-09-05T14:27:22	Date and time of file creation	ontime1	21614.770279527	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	21614.81131959	Sum of GTIs [s]
			ontime3	21614.852369428	Sum of GTIs [s]
			ontime6	21617.829229712	Sum of GTIs [s]
			l1events	1117730	Number of level 1 events

2.1.4 Events

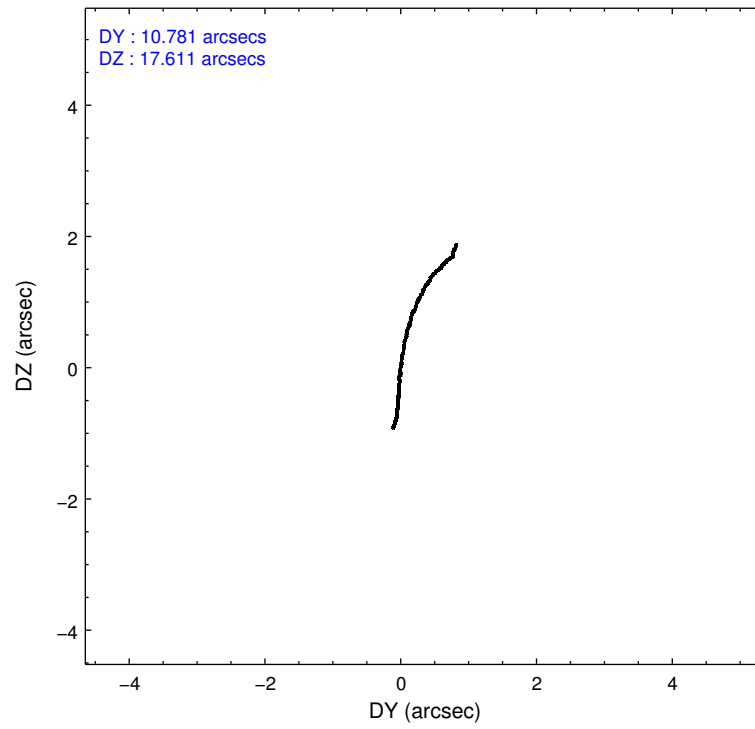
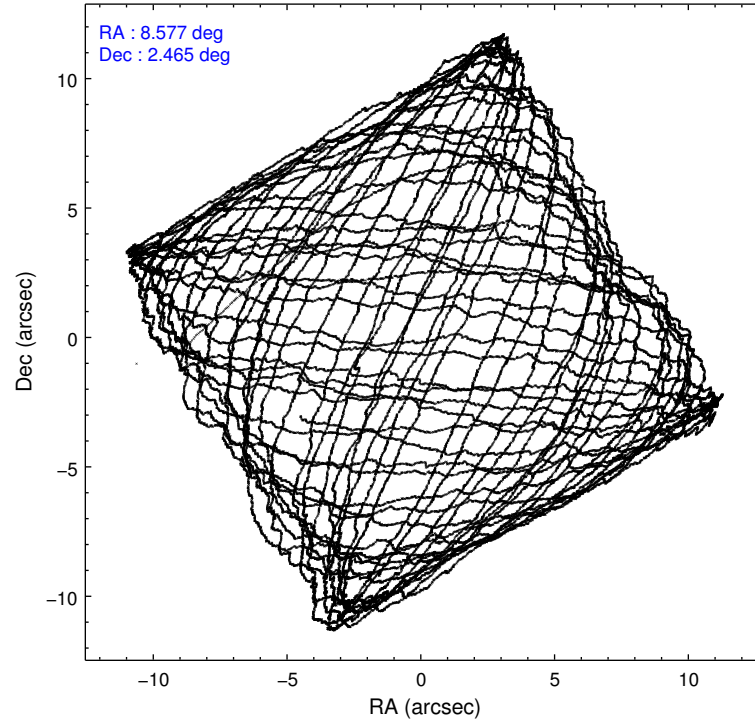
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	188736	206599	246208	229307	246880
rejected events	163135	183586	218155	206023	223871
rejected %	86%	88%	88%	89%	90%

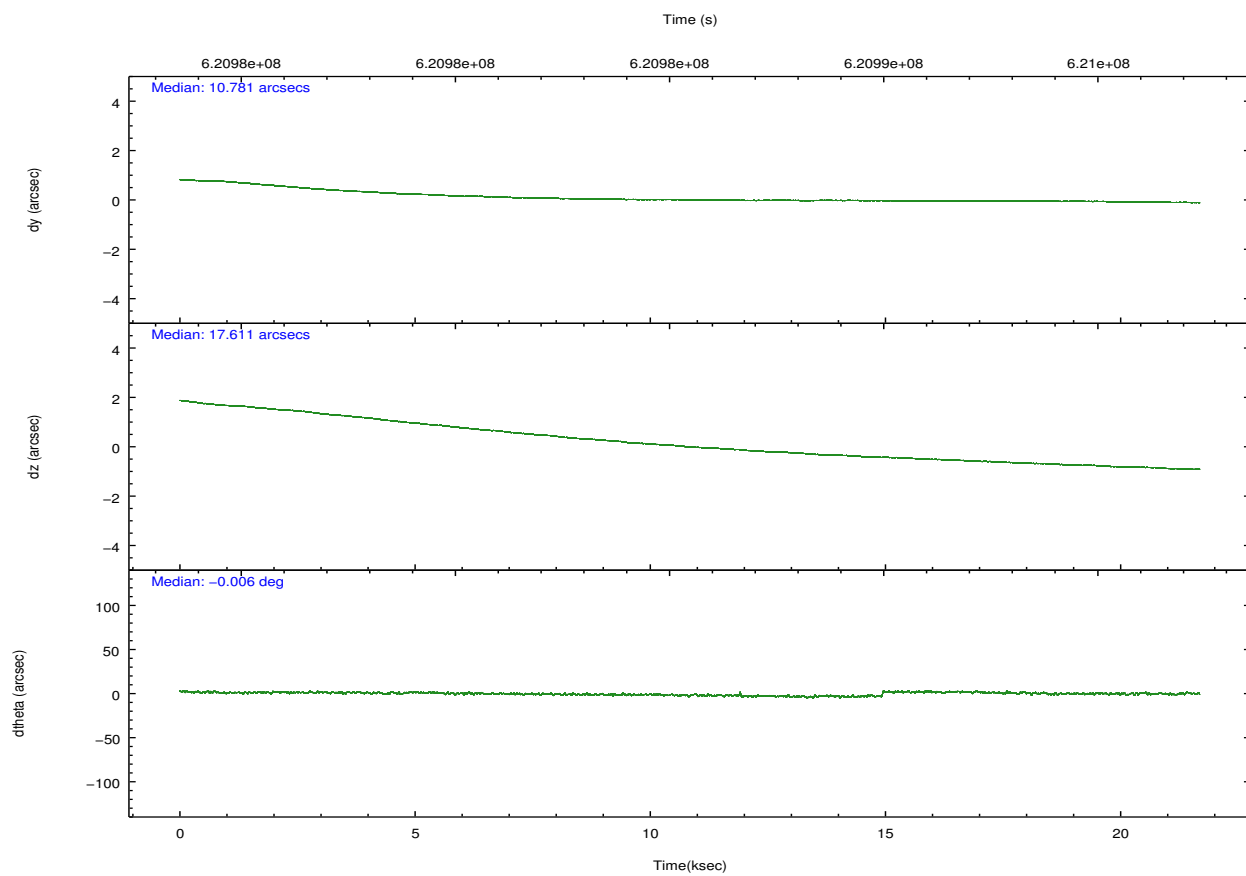
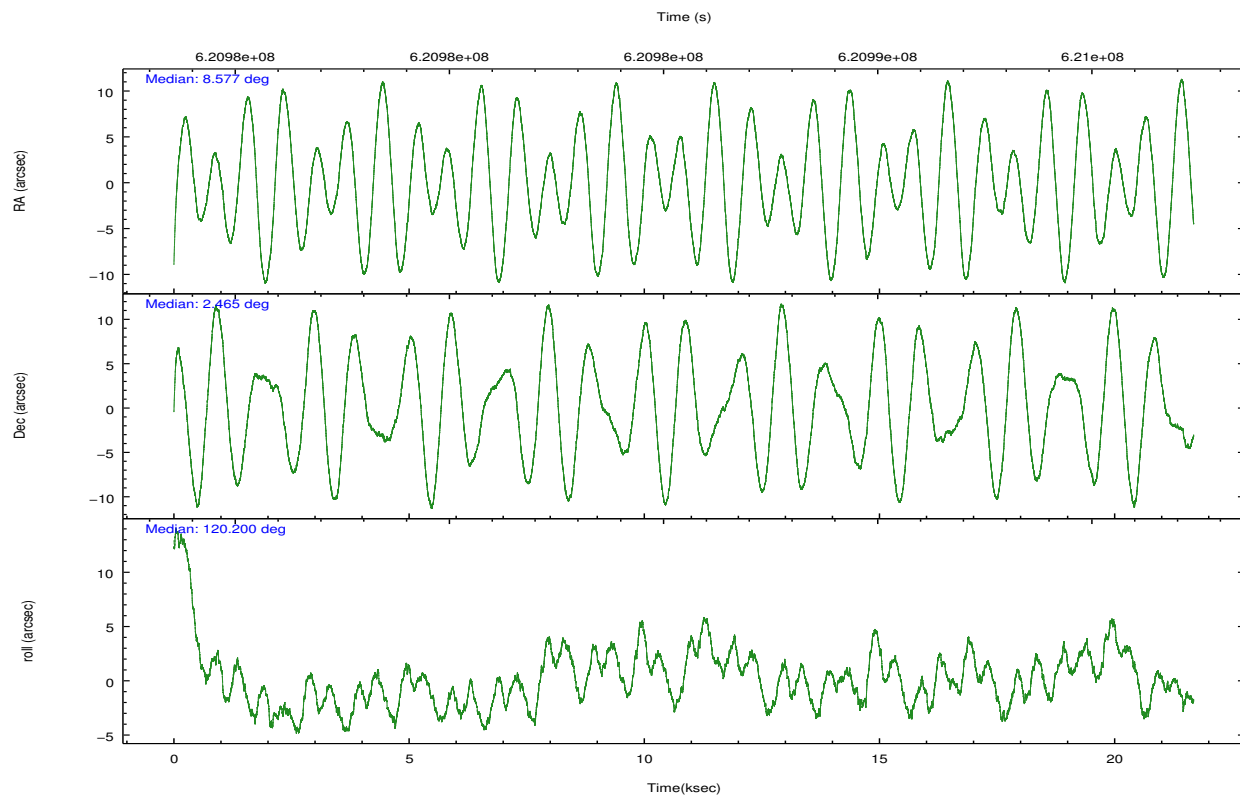
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	9180	8076	9902	10671	7583
	4%	3%	4%	4%	3%
grade 1 events	128	95	148	131	96
	0%	0%	0%	0%	0%
grade 2 events	8866	6477	9802	4989	7528
	4%	3%	3%	2%	3%
grade 3 events	1756	1880	1711	1927	1731
	0%	0%	0%	0%	0%
grade 4 events	1772	1894	2325	1861	1725
	0%	0%	0%	0%	0%
grade 5 events	6436	6824	6154	7220	7006
	3%	3%	2%	3%	2%
grade 6 events	4037	4698	4326	3841	4444
	2%	2%	1%	1%	1%
grade 7 events	156561	176655	211840	198667	216767
	82%	85%	86%	86%	87%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	8.600982	8.576982389991667	CCD I2 on	Y	Y
[deg] Pointing Dec	2.451136	2.464749572605511	CCD I3 on	Y	Y
[deg] Pointing Roll	120.000304	120.2100209899347	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-225.792463	-225.7829997647864	CCD S3 on	O1	N
[mm] SIM translation stage offset	-7.8	-7.809453238143249	CCD S4 on	N	N
[s] Observation start time (MET)	620974763.184000	620973394.06767	CCD S5 on	N	N
Observation start date	2017-09-05T04:58:14	2017-09-05T04:36:34	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	620996315.184000	620997045.94405	On-chip summing requested	N	N
Observation end date	2017-09-05T10:57:26	2017-09-05T11:10:45	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



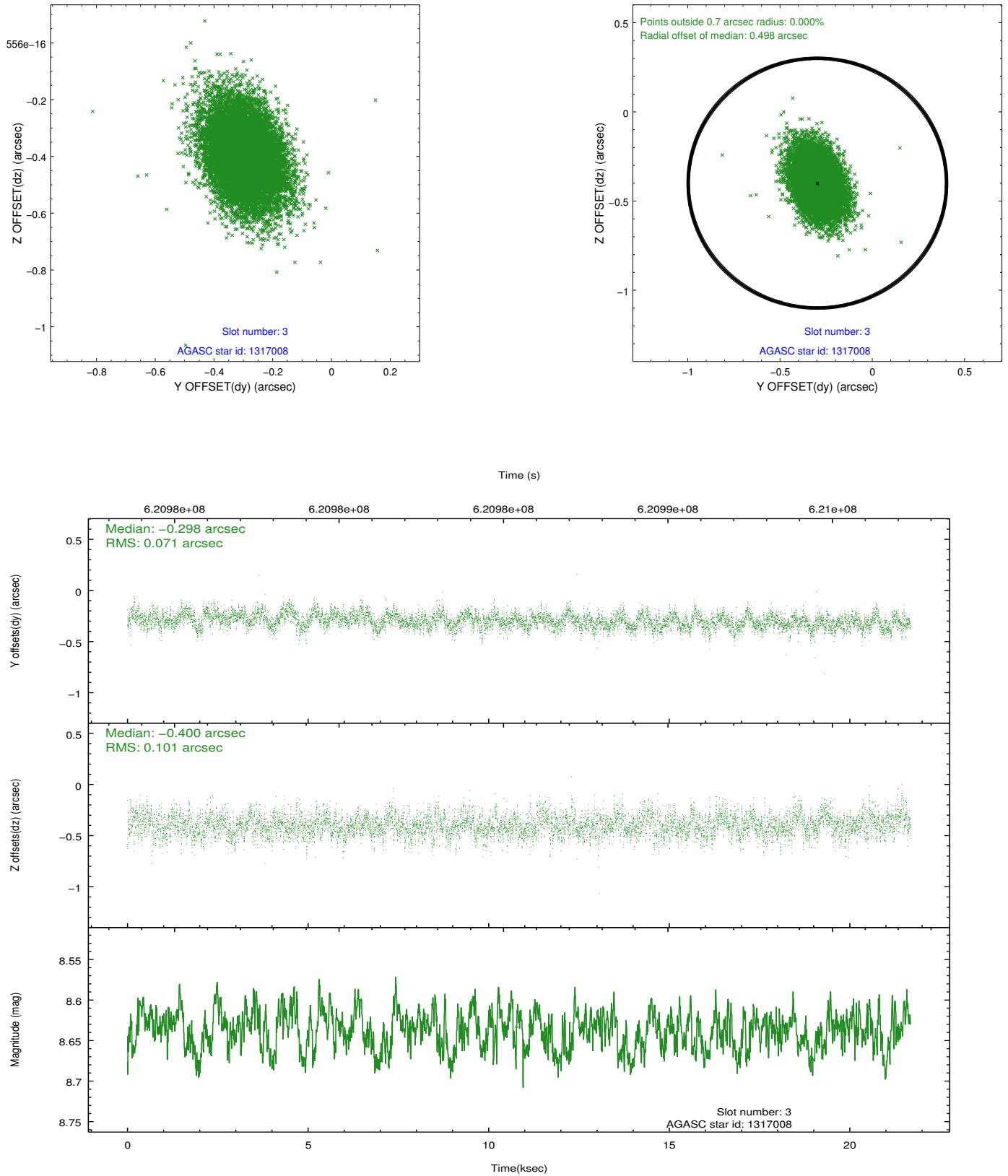


Slot Statistics

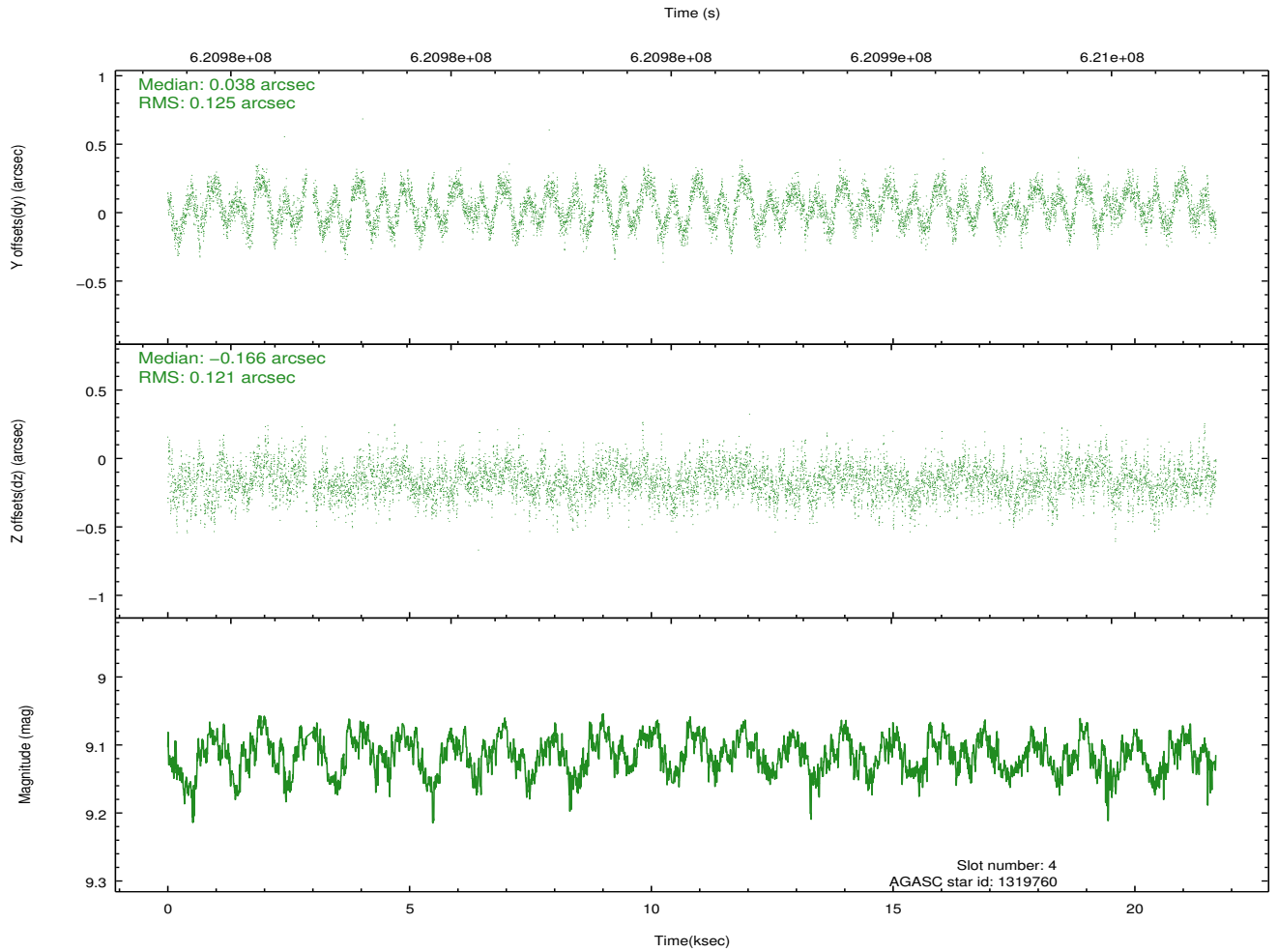
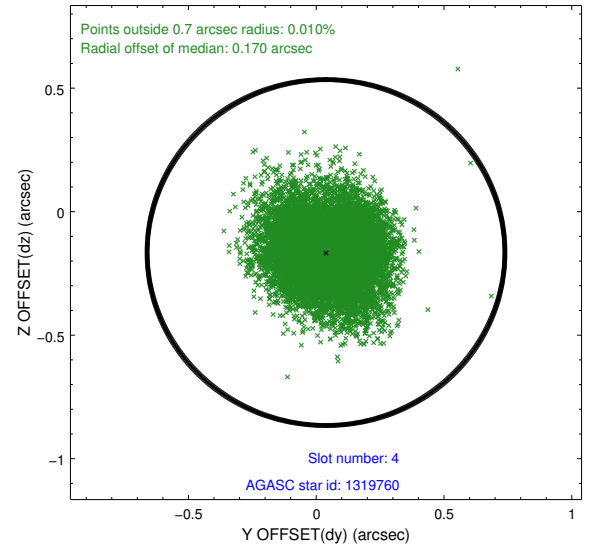
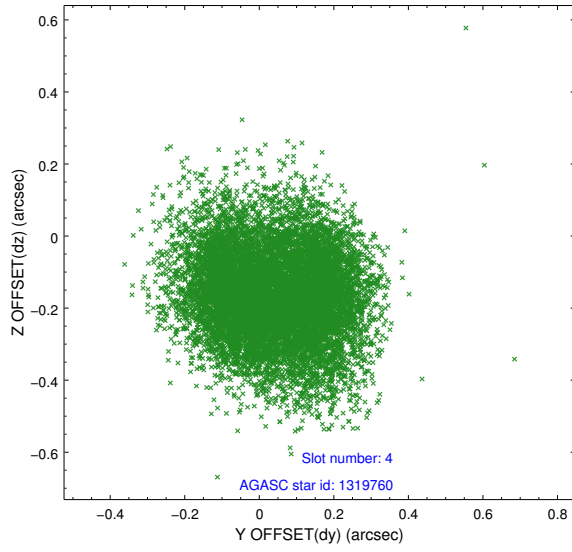
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.13	5288	-0.092	-0.127	0.036	0.093	0.000000	0.000000	928.51	-1001.88
1	FID		ACIS-I-4	7.04	5286	-0.009	0.157	0.021	0.042	0.000000	0.000000	2148.15	899.18
2	FID		ACIS-I-6	7.14	5287	0.004	0.037	0.033	0.081	0.000000	0.000000	394.53	1540.35
3	GUIDE	used	1317008	8.64	10569	-0.298	-0.400	0.127	0.217	7.961798	2.459885	1176.86	1974.27
4	GUIDE	used	1319760	9.11	10505	0.038	-0.166	0.187	0.293	8.176984	2.160727	-142.06	1842.90
5	GUIDE	used	1705488	9.60	10554	0.108	0.647	0.227	0.403	9.022761	2.766276	225.29	-1879.80
6	GUIDE	used	1715064	9.00	10565	-0.088	0.050	0.165	0.277	8.805269	3.208700	1992.96	-1999.18
7	GUIDE	used	1314800	9.47	10554	0.253	-0.135	0.176	0.302	8.275096	1.744576	-1616.19	2286.93

2.4 Star Slots

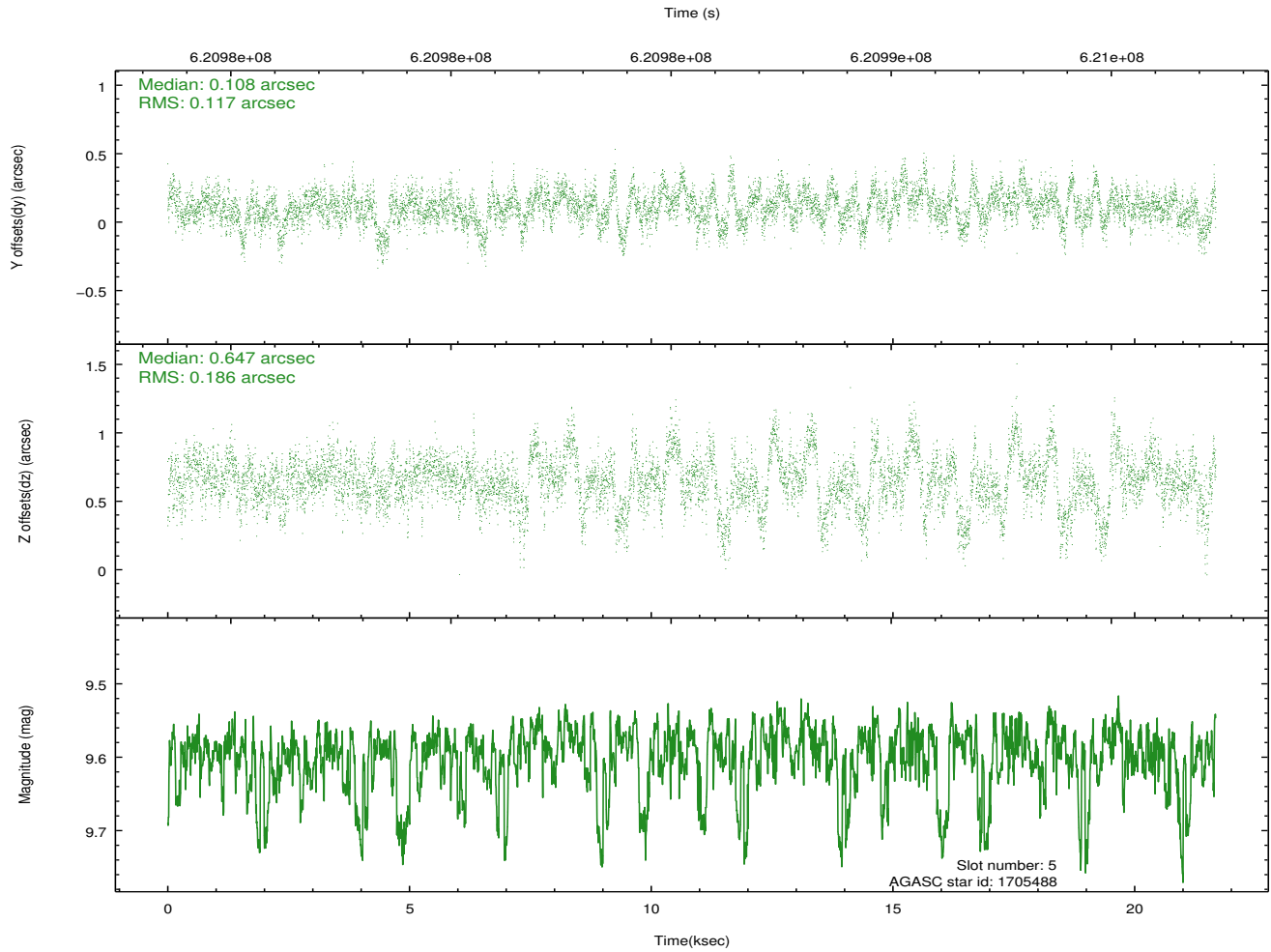
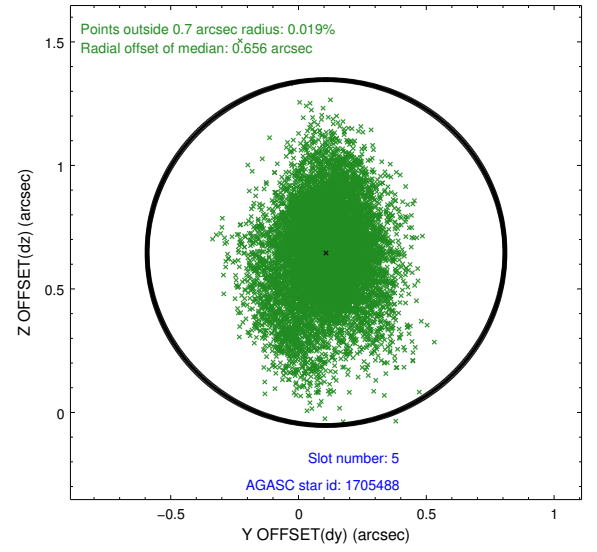
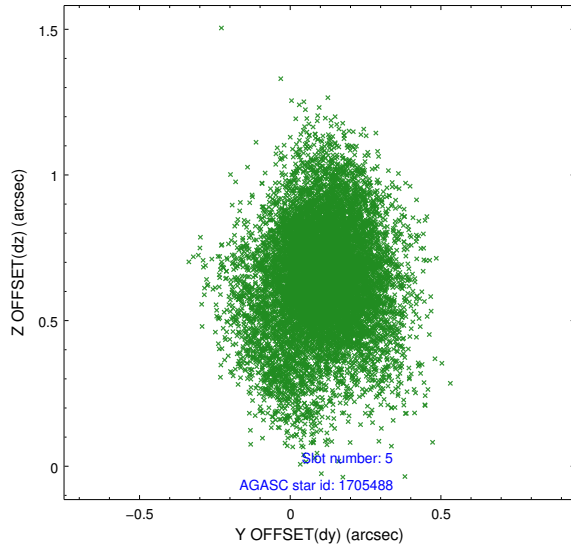
2.4.1 Slot 3



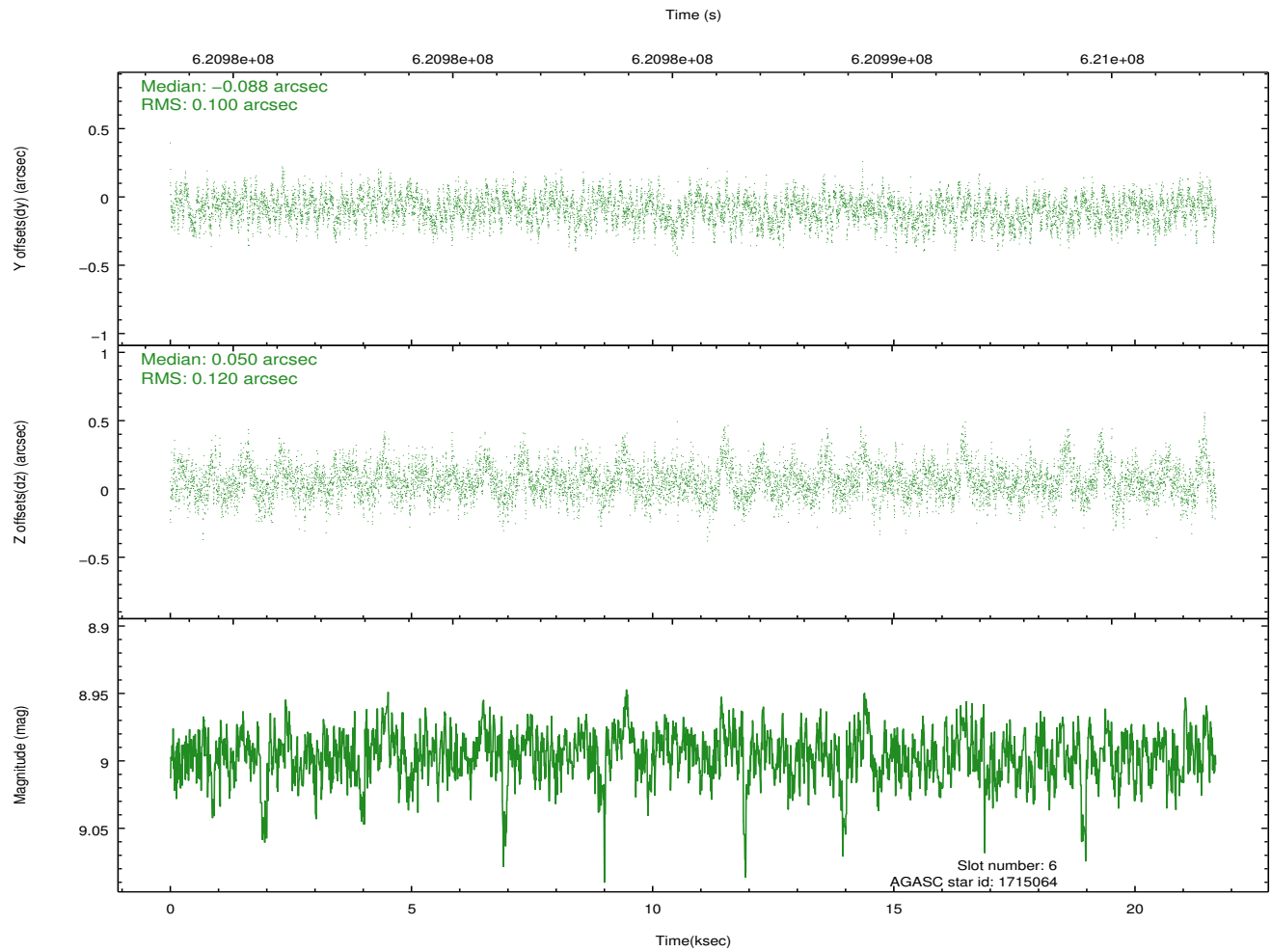
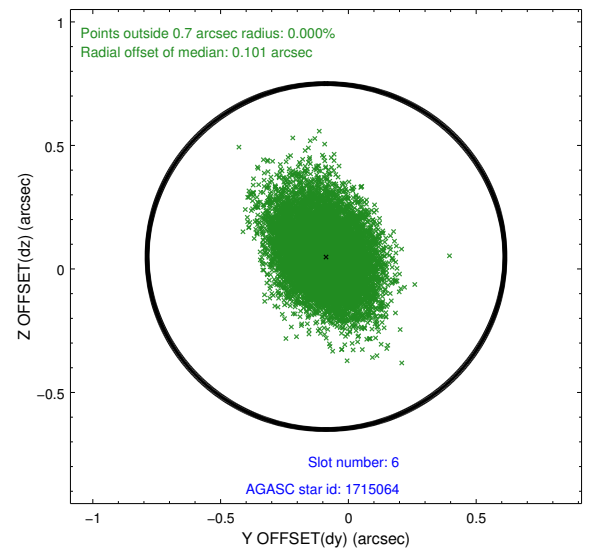
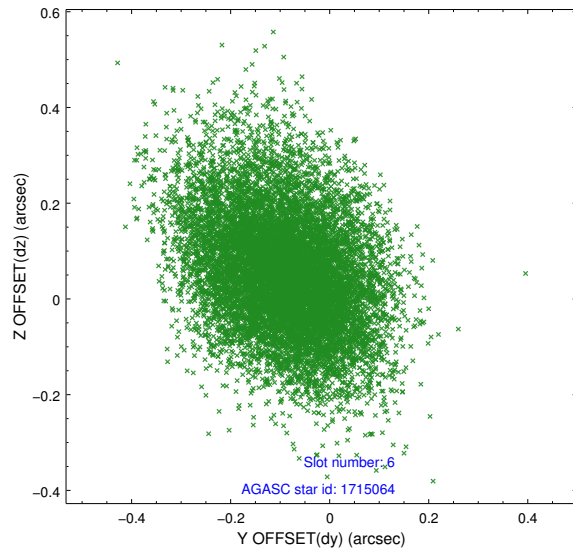
2.4.2 Slot 4



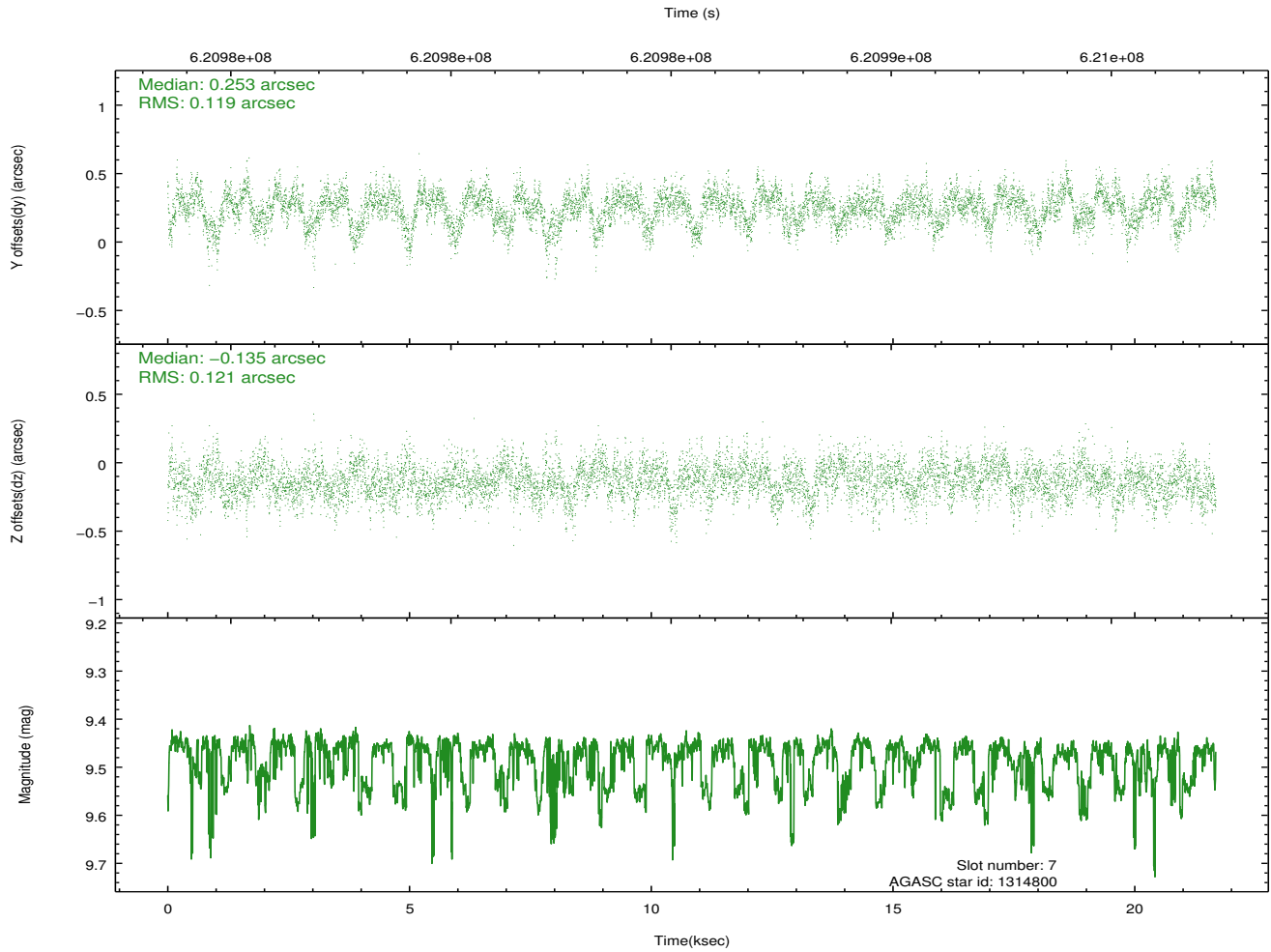
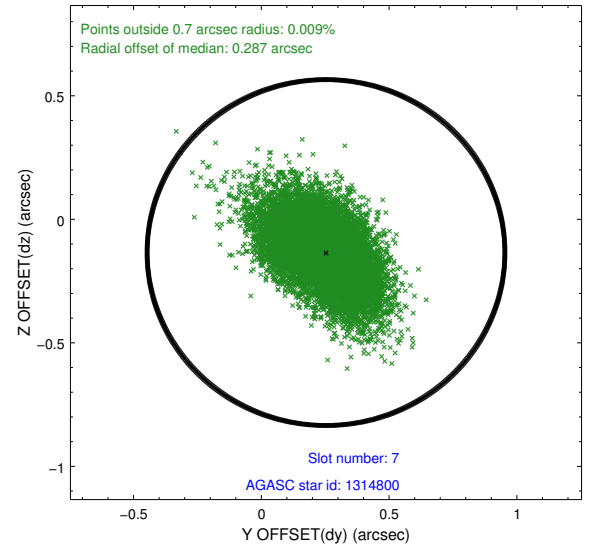
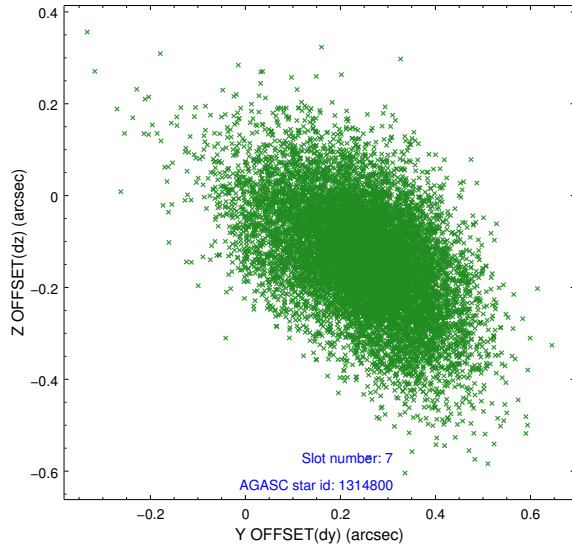
2.4.3 Slot 5



2.4.4 Slot 6

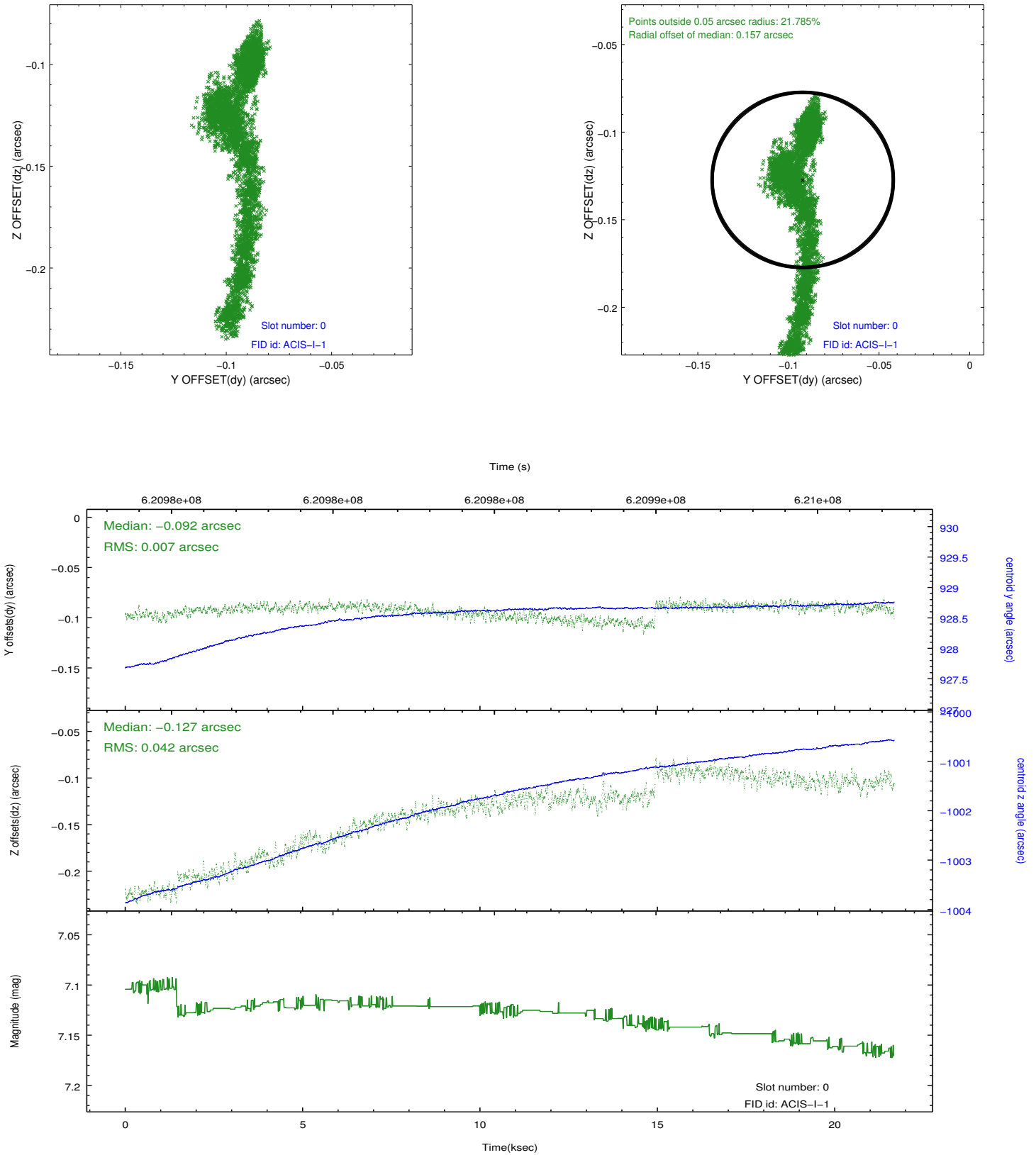


2.4.5 Slot 7

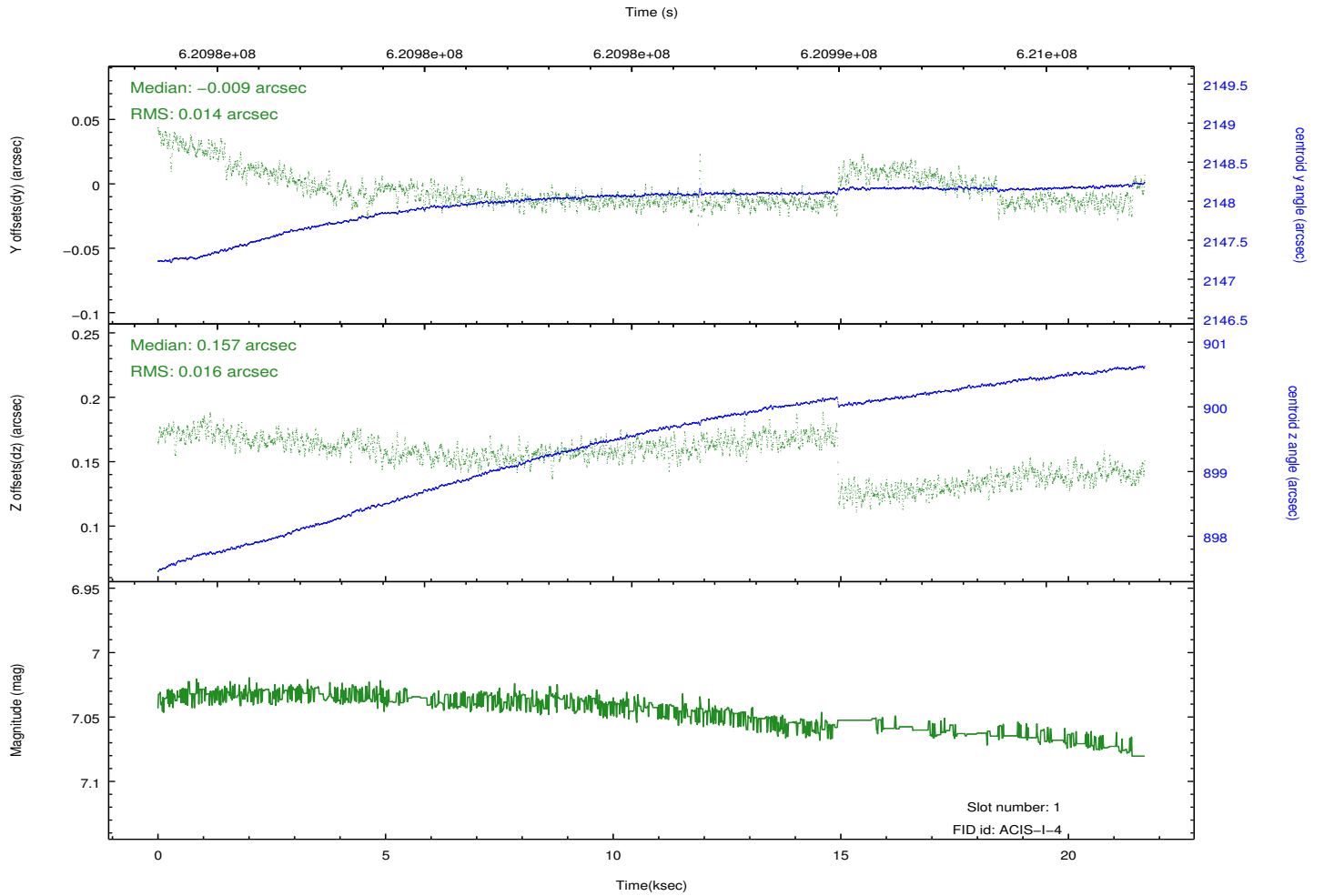
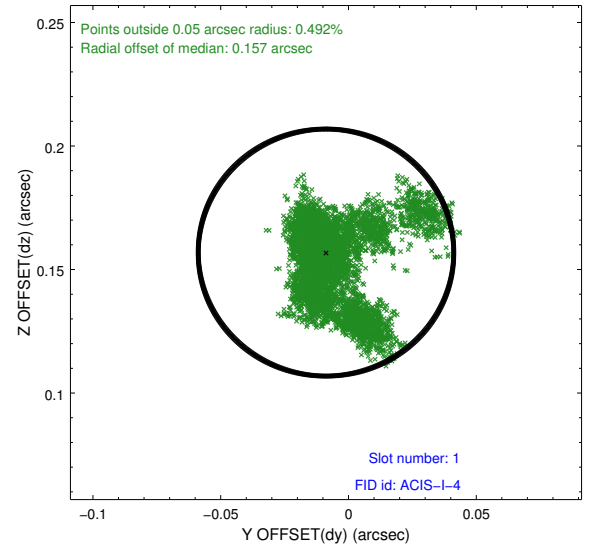
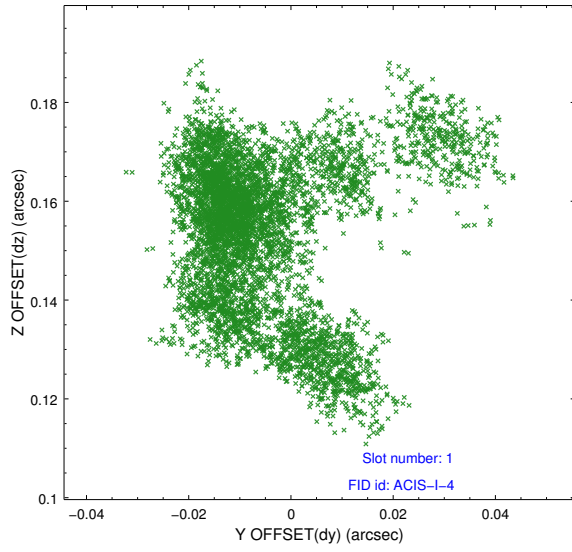


2.5 FID Slots

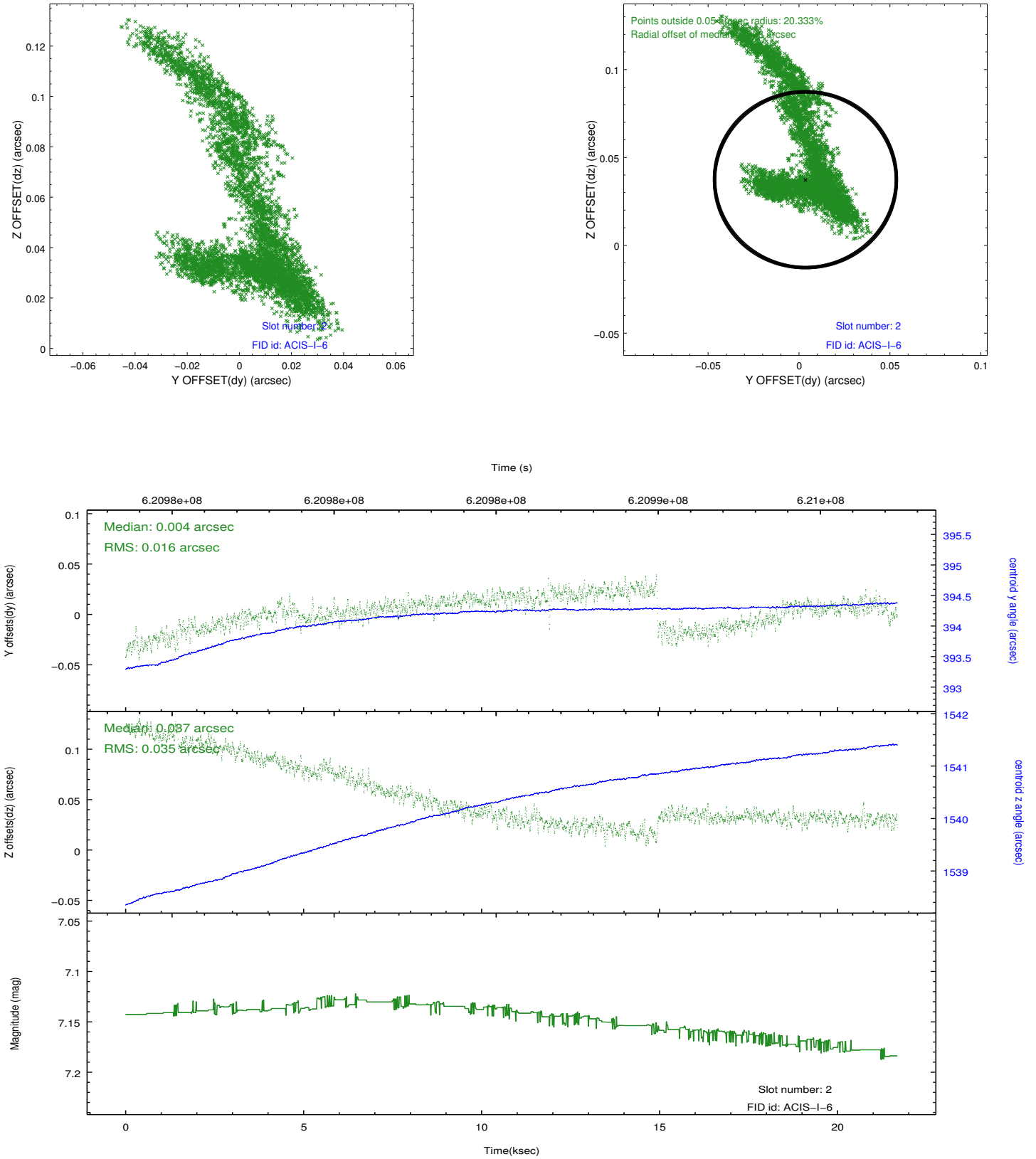
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2017.09.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	21.614852369428

A.2 Comments

One optional chip was dropped.